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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10.047,681	01 14 2002	Kuan-Sheng Hsieh	JCLA7793	5281
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J.C. Patents, Inc. Suite 250			EXAMINER	
4 Venture			MITCHELL, JAMES M	
Irvine, CA 926	518		ART UNIT	PAPER NUMBER
			2827	
			DATE MAILED: 05/06.2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Information Disclosure Statement(s) (PTO-1449) Paper No(s) Other: Patent and Trademark Office O 336 (Pay 04 04)	•	-	Application No.	Applicant(s)
James Mitchell Jame		.	10/047,681	HSIEH, KUAN-SHENG
The MALING DATE of this communication appears on the cover sheet with the correspondence address. Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. THE MAILING DATE OF THIS COMMUNICATION. THE MAILING DATE OF THIS COMMUNICATION. If the period for regity is pecified above is less than thinly 1001 days, a reply within the statutory more with or regity is pecified above is less than thinly 1001 days, a reply within the statutory more within the statutory of the period for regity is pecified above is less than thinly 1001 days, a reply within the statutory grow of the period for regity is pecified above is less than thinly 1001 days, a reply within the statutory more within the statutory and the period for regity is pecified above is less than thinly 1001 days, a reply within the statutory in the mention of the period for regity is pecified above is less than thinly 1001 days, a reply within the statutory in the period for regity is pecified above is less than thinly 1001 days and within the communication. Any reply received by the Office later than three months after the malling date of this communication. Any reply received by the Office later than three months after the malling date of this communication, which is a surface and the period of the same and the period of		Office Action Summary	Examiner	Art Unit
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Extension of the may be available under the provisions of 32 CFR 138(a). In no event, however, may a reply be timely filed be considered timely. Extensions of time may be available under the provisions of 32 CFR 138(a). In no event, however, may a reply be timely filed the period for reply specified above is the print of the period for reply specified above in the season with the period for reply specified above in the season may be added above the manner statutory period mappy and will apper 50 KI (b) MOTHS from the making date of this communication. The period for reply specified above, the manner statutory period mappy and will apper 50 KI (b) MOTHS from the making date of this communication. The period of the period for reply specified above, the manner statutory period mappy and will apper 50 KI (b) MOTHS from the making date of this communication. The period patent term adjustment. See 37 CFR 1.74(b). Responsive to communication(s) filed on 14 January 2002 2a) This action is FINAL. 2b) This action is non-final. 3b) Since this application is in condition for allowance except for formal matters, prosecution as to the merits closed in accordance with the practice under Ex parte Quayle, 1935 C D. 11, 453 O.G. 213. Disposition of Claims 4b) Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5c) Claim(s) 1-17 is/are rejected. 7c) Claim(s) is/are allowed. 6c) Claim(s) 1-17 is/are rejected to by the Examiner. 7do Claim(s) 1-17 is/are rejected to by the Examiner. 10c) The drawing(s) filed on is/are: alpha accepted or blo objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is/are: alpha accepted or blo disapproved by the Examiner. 12c) The oath or declaration is objected to by the Examiner. 12d) The roath or declaration is objected to by the Examiner. 12d) Acknowledgment is made of a claim for foreign priority und	Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover	
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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims1-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear as to how the word flux further narrows the scope of layer.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1,2, 4-6, 8-12 and 14-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takano.

Takano (Fig 1a, 2a) discloses a flip chip package having a bonded anisotropic conductive film, comprising a thermal set plastic material (3a) and a plurality of conductive particles within the plastic material, wherein each conductive particle has a conductive that is a band in a ball shape or bubble and therefore is a gold bead (7C; English Par. 0031), a bonding layer (7b) forming a spherical structure and a flux layer (7a;understood to be an electrically insulating layer; Applicants Spec. Page 7), the bonding layer lays over a surface of the conductive bead and thus covers said bead,

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and the flux layer lays over a surface of the binding layer and thus covers said bonding layer; and chip (1) and carrier (6) with a plurality of contact points (2 & 5) that correspond in position to first contact points of said chip, wherein the ACF is inherently inserted (Fig 1a) between the chip and carrier, such that each pair of corresponding contact points form a common metallic bond through the bonding layer of the conductive particles within the ACF (Fig 1b).

Although, Takano does not appear to explicitly teach the process limitations of "Hardened after being raised to a first temperature, the bonding layer melts at a second temperature higher than the first temperature" the product of Takano inherently possesses the structural characteristics imparted by the process limitation. See In re Fitzgerald, Sanders, and Bagheri, 205 USPQ 594 (CCPA 1980).

While Takano does not appear to disclose that the chip is comprised of silicon. Examiner takes official notice that silicon chips were well known at the time the invention was made and that it would have been obvious to one of ordinary skill in the art to form the chip of Takano of silicon in order form a semiconductor chip as requires by Takano.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Mitchell whose telephone number is (703) 305-0244. The examiner can normally be reached on M-F 10:30-8:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on (703) 305-9883. The fax phone

numbers for the organization where this application or proceeding is assigned are (703) 305-3432 for regular communications and (703) 305-3230 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

jmm / // May 1, 2003

DAVID E. GRAMINER